SYSTEM AND METHOD FOR DATA TRANSFER OPTIMIZATION IN A PORTABLE AUDIO DEVICE

ABSTRACT OF THE DISCLOSURE

A system and method are disclosed wherein a battery-powered portable audio device utilizes a spinning media device for data storage. To conserve batter power, the motor in the media storage device is not powered unless an actual data transfer is required. A processor calculates the amount of data remaining in a data buffer and considers a number of factors, such as the type of spinning media storage device, amount of available buffer space, the type of CODEC used to implement the system, and the type of data to determine when it will be necessary to power up the spinning media storage device and transfer data to assure that a continuous stream of data is provided to the CODEC.

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